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# TRANSMITTAL FORM

(To be used for all correspondence  
after initial filing)

Application Number	10/723,606
Filing Date	November 26, 2003
First Named Inventor	Helena L. Palka-Hamblin
Art Unit	1645
Examiner Name	
Attorney Docket No.	200125.447

## ENCLOSURES (check all that apply)

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form                                       | <input type="checkbox"/> Drawing(s)  | <input type="checkbox"/> CD(s), Number of CD(s) _____  |
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| <input type="checkbox"/> Amendment/Response   | <input type="checkbox"/> Licensing-related Papers  | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences                  |
| <input type="checkbox"/> After Final  | <input type="checkbox"/> Petition  | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)              |
| <input type="checkbox"/> Affidavits/declaration(s)                                  | <input type="checkbox"/> Petition to Convert to a Provisional Application                | <input type="checkbox"/> Proprietary Information   |
| <input type="checkbox"/> Extension of Time Request                                  | <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address | <input type="checkbox"/> Status Letter   |
| <input type="checkbox"/> Express Abandonment Request                                | <input type="checkbox"/> Declaration   | <input checked="" type="checkbox"/> Return Receipt Postcard  |
| <input checked="" type="checkbox"/> Information Disclosure Statement; Form PTO-1449 | <input type="checkbox"/> Statement under 37 CFR 3.73(b)                                  | <input type="checkbox"/> Additional Enclosure(s) (please identify below):<br>_____<br>_____<br>_____ |
| <input checked="" type="checkbox"/> Cited References                                | <input type="checkbox"/> Terminal Disclaimer   |  |
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## Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Mae Joanne Rosok	Customer Number
		00500
Signature	<i>Mae Joanne Rosok</i>	
Date	<i>July 6, 2004</i>	

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Jason Anover
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Date: *July 6, 2004*

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 1.82 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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July 6, 2004  
Date

Jason Añover

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Helena L. Palka-Hamblin et al.  
Application No. : 10/723,606  
Filed : November 26, 2003  
For : DEP-1 RECEPTOR PROTEIN TYROSINE PHOSPHATASE  
INTERACTING PROTEINS AND RELATED METHODS

Art Unit : 1645  
Docket No. : 200125.447  
Date : July 6, 2004

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 CFR 1.56 and 1.97 through 1.98, applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached Form PTO-1449. Applicants note that since the application filing date is after June 30, 2003, copies of the cited U.S. patents and published patent applications are not required and accordingly have not been provided. Copies of all other cited references are enclosed. As to any reference cited, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 CFR 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark

of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Applicants believe this Information Disclosure Statement has been timely filed; however, the Director is authorized to charge any fee due by way of this Information Disclosure Statement to our Deposit Account No. 19-1090.

Respectfully submitted,

Seed Intellectual Property Law Group PLLC



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Mae Joanne Rosok  
Registration No. 48,903

Enclosures:

Postcard  
Form PTO-1449  
Cited References (130)

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FORM PTO-1449 JUL 08 2004 PATENT & TRADEMARK OFFICE JCIS		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200125.447	APPLICATION NO. 10/723,606
				APPLICANTS Helena L. Palka-Hamblin et al.	
				FILING DATE November 26, 2003	GROUP ART UNIT 1645

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,912,138	06/15/99	Tonks et al.	435	21	
	AB	5,951,979	09/14/99	Tonks et al.	424	94.6	
	AC	6,114,140	09/05/00	Tonks et al.	435	69.1	
	AD	6,552,169	04/22/03	Tonks et al.	530	350	
	AE	2003/0148491	08/07/03	Tonks et al.	435	196	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK	WO 95/30008	11/09/95	WIPO		
	AL	WO 98/04712	02/05/98	WIPO		
	AM	WO 00/75339 A1	12/14/00	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AN	Baker, J. et al., "Protein Tyrosine Phosphatase CD148-Mediated Inhibition of T-Cell Receptor Signal Transduction is Associated with Reduced LAT and Phospholipase C $\gamma$ 1 Phosphorylation," <i>Mol Cell Biol.</i> 21(7):2393-403, April 2001.
AO	Bardelli, A. et al., "Gab1 Coupling to the HGF/Met receptor Multifunctional Docking Site Requires Binding of Grb2 and Correlates with the Transforming Potential," <i>Oncogene</i> 15(25):3103-11, December 1997.
AP	Barford, D. et al., "The Structure and Mechanism of Protein Phosphatases: Insights Into Catalysis and Regulation," <i>Annu Rev Biophys Biomol Struct.</i> 27:133-64, 1998.
AQ	Barnea, G. et al., "Identification of a Carbonic Anhydrase-Like Domain in the Extracellular Region of RPTP $\gamma$ Defines a New Subfamily of Receptor Tyrosine Phosphatases," <i>Mol. Cell. Biol.</i> 13(3):1497-1506, March 1993.
AR	Ben-Ze'ev, A. et al., "The Integration of Cell Adhesion with Gene Expression: The Role of $\beta$ -Catenin," <i>Exp Cell Res.</i> 261(1):75-82, November 2000.
AS	Borges, L. et al., "Cloning and Characterization of Rat Density-Enhanced Phosphatase-1, A Protein Tyrosine Phosphatase Expressed by Vascular Cells," <i>Circ Res.</i> 79(3):570-80, September 1996.

EXAMINER	DATE CONSIDERED

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FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200125.447	APPLICATION NO. 10/723,606
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Helena L. Palka-Hamblin et al.			
		FILING DATE November 26, 2003		GROUP ART UNIT 1645	

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BA						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
	BB			YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Bork, P. et al., "Proposed Acquisition of an Animal Protein Domain by Bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 89:8990-8994, 1992.
BD	Brady-Kalnay, S. et al., "Homophilic Binding of a PTPμ, a Receptor-Type Protein Phosphatase, Can Mediate Cell-Cell Aggregation," <i>J. Cell Biol.</i> 122:961-972, 1993.
BE	Brown-Shimer, S. et al., "Effect of Protein Tyrosine Phosphatase 1B Expression on Transformation by the Human <i>neu</i> Oncogene," <i>Cancer Res.</i> 52:478-482, January 1992.
BF	Buzzi, M. et al., "Differentiation-Induced Changes in Protein-Tyrosine Phosphatase Activity and Commensurate Expression of CD45 in Human Leukemia Cell Lines," <i>Cancer Res.</i> 52:4027-4035, July 1992.
BG	Capecchi, M.R., "Altering the Genome by Homologous Recombination," <i>Science</i> 244:1288-1292, June 1989
BH	Carr, D. et al., "Blotting and Bandshifting: Techniques for Studying Protein-Protein Interactions," <i>Trends in Biochemical Sci.</i> 17:246-249, July 1992.
BI	Carr, D. et al., "Association of the Type II cAMP-dependent Protein Kinase with a Human Thyroid RII-Anchoring Protein," <i>J. Biol. Chem.</i> 267(19):13376-13382, July 1992.
BJ	Charbonneau, H. et al., "1002 Protein Phosphatases," <i>Ann. Rev. Cell Biol.</i> 8:463-493, 1992.
BK	Conacci-Sorrell, M. et al., "The Cadherin-Catenin Adhesion System in Signaling and Cancer," <i>J Clin Invest.</i> 109(8):987-91, April 2002.
BL	Cool, D. et al., "cDNA Isolated from a Human T-Cell Library Encodes a Member of the Protein-Tyrosine-Phosphatase Family," <i>Proc. Natl. Acad. Sci. USA</i> 86:5257-5261, 1989.
BM	Edelman G. et al., "Cell Adhesion Molecules: Implications for a Molecular Histology," <i>Ann Rev. Biochem.</i> 60:155-190, 1991.

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	CA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
		CB			YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	Fields S. et al., "A Novel Genetic System to Detect Protein-Protein Interactions," <i>Nature</i> 340:245-246, July 1989.
CD	Fischer, E. et al., "Protein Tyrosine Phosphatases: A Diverse Family of Intracellular and Transmembrane Enzymes," <i>Science</i> 253:401-406, July 1991.
CE	Fixman, E. et al., "Efficient Cell Transformation by the Tpr-Met Oncoprotein is Dependent Upon Tyrosine 489 in the Carboxy-Terminus," <i>Oncogene</i> 10(2):237-49, January 1995.
CF	Flint, A. et al., "Multi-site Phosphorylation of the Protein Tyrosine Phosphatase, PTP1B: Identification of Cell Cycle Regulated and Phorbol Ester Stimulated Sites of Phosphorylation," <i>EMBO J.</i> 12(5):1937-1946, May 1993.
CG	Flint, A. et al., "Development of 'substrate-trapping' mutants to identify physiological substrates of protein tyrosine phosphatases," <i>Proc Natl Acad Sci U S A.</i> 94(5):1680-5, March 1997.
CH	Florio, T. et al., "Oncogene Transformation of PC Cl3 Clonal Thyroid Cell Line Induces an Autonomous Pattern of Proliferation that Correlates with a Loss of Basal and Stimulated Phosphotyrosine Phosphatase Activity," <i>Endocrinology</i> 138(9):3756-63, September 1997.
CI	Fournier, T. et al., "Branching Tubulogenesis but not Scatter of Madin-Darby Canine Kidney Cells Requires a Functional Grb2 Binding site in the Met Receptor Tyrosine Kinase, <i>J Biol Chem.</i> 271(36):22211-7, September 1996.
CJ	Frangioni, J. et al., "The Nontransmembrane Tyrosine Phosphatase PTP-B1 Localizes to the Endoplasmic Reticulum via its 35 Amino Acid C-Terminal Sequence," <i>Cell</i> 68:545-560, February 1992.
CK	Furge, K. et al., "Met Receptor Tyrosine Kinase: Enhanced Signaling Through Adapter Proteins," <i>Oncogene</i> 19(49):5582-9, November 2000.

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DA						

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
	DB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Gebbink, M. et al., "Cloning, Expression and Chromosomal Localization of a New Putative Receptor-Like Protein Tyrosine Phosphatase," <i>FEBS Lett.</i> 290(1,2):123-130, September 1991.
DD	Giordano, S. et al., "The Semaphorin 4D Receptor Controls Invasive Growth by Coupling with Met," <i>Nat Cell Biol.</i> 4(9):720-4, September 2002.
DE	Gottardi, C. et al., "E-Cadherin Suppresses Cellular Transformation by Inhibiting $\beta$ -Catenin Signaling in an Adhesion-Independent Manner," <i>J Cell Biol.</i> 153(5):1049-59, May 2001.
DF	Gu, M. et al., "Cloning and Expression of a Cytosolic Megakaryocyte Protein-Tyrosine-Phosphatase with a Sequence Homology to Retinaldehyde-Binding Protein and Yeast SEC14p," <i>Proc. Natl. Acad. Sci. USA</i> 89:2980-2984, April 1992.
DG	Hirsch, A. et al., "Cloning and Expression of an Intron-less Gene for AKAP 75, an Anchor Protein for the Regulatory Subunit of cAMP-Dependent Protein Kinase II $\beta$ ," <i>J. Biol. Chem.</i> 267(4):2131-2134, February 1992.
DH	Holsinger, L. et al., "The Transmembrane Receptor Protein Tyrosine Phosphatase DEP1 Interacts with p120 <sup>ctn</sup> ," <i>Oncogene</i> 21(46):7067-76, October 2002.
DI	Honda, H. et al., "Identification of Novel Protein-Tyrosine Phosphatases in a Human Leukemia Cell Line, F-36P," <i>Leukemia</i> 7(5):742-746, May 1993.
DJ	Honda, H. et al., "Molecular Cloning Characterization and Chromosomal Localization of a Novel Protein-Tyrosine Phosphatase HPTP $\eta$ ," <i>Blood</i> 84(12):4186-4194, December 1994.
DK	Huynh, T. et al., "Constructing and Screening cDNA Libraries in $\lambda$ gt10 and $\lambda$ gt11," <i>DNA Cloning Vol. 1</i> , edited by Glover, IRL Press, pp. 49-78, 1985.
DL	Jia, Z., "Protein Phosphatases: Structures and Implications," <i>Biochem Cell Biol.</i> 75(1):17-26, 1997.

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	EA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	EB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EC	Keane, M. et al., "The Protein Tyrosine Phosphatase DEP-1 is Induced During Differentiation and Inhibits Growth of Breast Cancer Cells," <i>Cancer Res.</i> 56(18):4236-43, September 1996.
ED	Keirsebilck, A. et al., "Molecular Cloning of the Human p120 <sup>ctn</sup> Catenin Gene (CTNND1): Expression of Multiple Alternatively Spliced Isoforms," <i>Genomics</i> 50(2):129-46, June 1998.
EE	Karllund, J., "Transformation of Cells by an Inhibitor of Phosphatases Acting on Phosphotyrosine in Proteins," <i>Cell</i> 41(3):707-717, July 1985.
EF	Komada, M. et al., "The Cell Dissociation and Motility Triggered by Scatter Factor/Hepatocyte Growth Factor are Mediated Through the Cytoplasmic Domain of the c-Met Receptor," <i>Oncogene</i> 8(9):2381-90, September 1993.
EG	Kovalenko, M. et al., "Site-Selective Dephosphorylation of the Platelet-Derived Growth Factor β-Receptor by the Receptor-Like Protein-Tyrosine Phosphatase DEP-1," <i>J Biol Chem.</i> 275(21):16219-26, May 2000.
EH	Kozak, M., "The Scanning Model for Translation: An Update," <i>J. Cell Biol.</i> 108:229-241, February 1989.
EI	Krueger, N. et al., "A Human Transmembrane Protein-Tyrosine-Phosphatase, PTPζ, is Expressed in Brain and has an N-terminal Receptor Domain Homologous to Carbonic Anhydrases," <i>Proc. Natl. Acad. Sci. USA</i> 89(16):7417-7421, August 1992.
EJ	Krueger, N. et al., "Structural Diversity and Evolution of Human Receptor-like Protein Tyrosine Phosphatases," <i>EMBO J.</i> 9(10):3241-3252, 1990.
EK	Kuramochi, S. et al., "Molecular Cloning and Characterization of Byp, a Murine Receptor-Type Tyrosine Phosphatase Similar to Human DEP-1," <i>FEBS Lett.</i> 378(1):7-14, January 1996.

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	FA						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	FB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

FC	Leahy, D. et al., "Structure of a Fibronectin Type III Domain from Tenascin Phased by MAD Analysis of the Selenomethionyl Protein," <i>Science</i> 258(5084):987-991, November 1992.
FD	Lock, L. et al., "Identification of an Atypical Grb2 Carboxyl-Terminal SH3 Domain Binding Site in Gab Docking Proteins Reveals Grb2-Dependent and -Independent Recruitment of Gab1 to Receptor Tyrosine Kinases.," <i>J Biol Chem.</i> 275(40):31536-45, October 2000.
FE	Longo, F. et al., "Leukocyte Common Antigen-Related Receptor-linked Tyrosine Phosphatase," <i>J. Biol. Chem.</i> 268(35):26503-25611, 1993.
FF	Main, A. et al., "The Three Dimensional Structure of the Tenth Type III Module of Fibronectin: An Insight into RGD-Mediated Interactions," <i>Cell</i> 71(4):671-678, November 1992.
FG	Maina, F. et al., "Uncoupling of Grb2 from the Met Receptor in Vivo Reveals Complex Roles in Muscle Development.," <i>Cell</i> 87(3):531-42, November 1996.
FH	Martelli, M. et al., "Protein Tyrosine Phosphatase- $\eta$ Expression is Upregulated by the PKA-Dependent and is Downregulated by the PKC-Dependent Pathways in Thyroid Cells," <i>Exp. Cell Res.</i> 245(1):195-202, November 1998.
FI	Matozaki, T. et al., "Molecular Cloning of a Human Transmembrane-type Protein Tyrosine Phosphatase and its Expression in Gastrointestinal Cancers," <i>J. Biol. Chem.</i> 269(3):2075-2081, 1994.
FJ	Maulik, G. et al., "Role of the Hepatocyte Growth Factor Receptor, c-Met, in Oncogenesis and Potential for Therapeutic Inhibition," <i>Cytokine Growth Factor Rev.</i> 13(1):41-59, February 2002.
FK	Mikayama, T. et al., "Molecular Cloning and Functional Expression of a cDNA Encoding Glycosylation-Inhibiting Factor," <i>Proc. Natl. Acad. Sci. USA</i> 90(21):10056-10060, November 1993.

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GA						

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	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES      NO
GB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

GC	Nguyen, L. et al., "Association of the Multisubstrate Docking Protein Gab1 with the Hepatocyte Growth Factor Receptor Requires a Functional Grb2 Binding Site Involving Tyrosine 1356," <i>J. Biol. Chem.</i> 272(33):20811-9, August 1997.
GD	Oon, S. et al., "Alternative Splicing in a Novel Tyrosine Phosphatase Gene (DPTP4E) of <i>Drosophila melanogaster</i> Generates Two Large Receptor-Like Proteins which Differ in their Carboxyl Termini," <i>J. Biol. Chem.</i> 268(32):23964-23971, 1993.
GE	Osborne, J. et al., "Murine DEP-1, A Receptor Protein Tyrosine Phosphatase, is Expressed in Macrophages and is Regulated by CSF-1 and LPS," <i>J. Leukoc. Biol.</i> 64(5):692-701, November 1998.
GF	Ostman, A. et al., "Expression of DEP-1, A Receptor-Like Protein-Tyrosine-Phosphatase, is Enhanced with Increasing Cell Density," <i>Proc. Natl. Acad. Sci. USA</i> 91(21):9680-4, October 1994.
GG	Palka, H. et al., "Hepatocyte Growth Factor Receptor Tyrosine Kinase Met is a Substrate of the Receptor Protein-Tyrosine Phosphatase DEP-1," <i>J. Biol. Chem.</i> 278(8):5728-35, February 2003. Epub 2002 Dec 09.
GH	Pallen, C. et al., "Elevation of Membrane Tyrosine Phosphatase Activity in Density-Dependent Growth-Arrested Fibroblasts," <i>Proc. Natl. Acad. Sci. USA</i> 88(16):6996-7000, August 1991.
GI	Palou, E. et al., "CD148, A Membrane Protein Tyrosine Phosphatase, is Able to Induce Tyrosine Phosphorylation on Human Lymphocytes," <i>Immunol. Lett.</i> 57(1-3):101-3, June 1997.
GJ	Park, M. et al., "Sequence of MET Protooncogene cDNA has Features Characteristic of the Tyrosine Kinase Family of Growth-Factor Receptors," <i>Proc. Natl. Acad. Sci. USA</i> 84(18):6379-83, September 1987.

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					YES NO
	HB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

HC	Patthy, L., "Homology of a Domain of the Growth Hormone/Prolactin Receptor Family with Type III Modules of Fibronectin," <i>Cell</i> 61(1):13-14, April 1990.
HD	Pelicci, G. et al., "The Motogenic and Mitogenic Responses to HGF are Amplified by the Shc Adaptor Protein," <i>Oncogene</i> 10(8):1631-8, April 1995.
HE	Pingel, J. et al., "Evidence that the Leukocyte-Common Antigen is Required for Antigen-Induced T Lymphocyte Proliferation," <i>Cell</i> 58(6):1055-1065, September 1989.
HF	Ponzerotto, C. et al., "A Multifunctional Docking Site Mediates Signaling and Transformation by the Hepatocyte Growth Factor/Scatter Factor Receptor Family," <i>Cell</i> 77(2):261-71, April 1994.
HG	Ponzerotto, C. et al., "Specific Uncoupling of GRB2 from the Met Receptor. Differential Effects on Transformation and Motility," <i>J Biol Chem.</i> 271(24):14119-23, June 1996..
HH	Rijken, G. et al., "Orthovanadate Both Mimics and Antagonizes the Transforming Growth Factor $\beta$ Action on Normal Rat Kidney Cells," <i>J. Cell Physiol.</i> 154(2):393-401, 1993.
HI	Rodrigues, G. et al., "Autophosphorylation Modulates the Kinase Activity and Oncogenic Potential of the Met Receptor Tyrosine Kinase," <i>Oncogene</i> 9(7):2019-27, July 1994.
HJ	Ruivenkamp, C. et al., "Ptprrj is a Candidate for the Mouse Colon-Cancer Susceptibility Locus Scc1 and is Frequently Deleted in Human Cancers," <i>Nat. Genet.</i> 31(3):295-300, July 2002.
HK	Sachs, M. et al., "Essential Role of Gab1 for Signaling by the c-Met Receptor in Vivo," <i>J. Cell Biol.</i> 150(6):1375-84, September 2000.
HL	Sachs, M. et al., "Motogenic and Morphogenic Activity of Epithelial Receptor Tyrosine Kinases," <i>J Cell Biol.</i> 133(5):1095-1107, June 1996.
HM	Sambrook et al., <i>Molecular Cloning</i> , CSH Laboratory Press, 1989, pp. 16.17-16.22.

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FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 200125.447	APPLICATION NO. 10/723,606
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANTS Helena L. Palka-Hamblin et al.			
		FILING DATE November 26, 2003		GROUP ART UNIT 1645	

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	IA						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO
	IB				

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	IC	Sambrook et al., <i>Molecular Cloning</i> , CSH Laboratory Press, 1989, pp. 16.32-16.40.
	ID	Shultz, L. et al., "Mutations at the Murine Motheaten Locus are within the Hematopoietic Cell Protein-Tyrosine Phosphatase ( <i>Hcph</i> ) Gene," <i>Cell</i> 73(7):1445-1454, 1993.
	IE	Schwarzbauer, J., "Fibronectin: From Gene to Protein," <i>Curr. Opin. Cell. Biol.</i> 3(5):786-791, 1991.
	IF	Scott, J. et al., "Searching for Peptide Ligands with an Epitope Library," <i>Science</i> 249(4967):386-390, July 1990.
	IG	Seed, B. et al., "Molecular Cloning of the CD2 Antigen, the T-Cell Erythrocyte Receptor, by a Rapid Immunoselection Procedure," <i>Proc. Natl. Acad. Sci. USA</i> 84(10):3365-3369, May 1987.
	IH	Shibamoto, S. et al., "Tyrosine Phosphorylation of $\beta$ -Catenin and Plakoglobin Enhanced by Hepatocyte Growth Factor and Epidermal Growth Factor in Human Carcinoma Cells," <i>Cell Adhes. Commun.</i> 1(4):295-305, January 1994.
	II	Stockinger, A. et al., "E-Cadherin Regulates Cell Growth by Modulating Proliferation-Dependent $\beta$ -Catenin Transcriptional Activity," <i>J. Cell Biol.</i> 154(6):1185-96, September 2001.
	IJ	Stoker, M. et al., "Density Dependent Inhibition of Cell Growth in Culture," <i>Nature</i> 215(97):171-172, July 1967.
	IK	Streuli, M. et al., "A New Member of the Immunoglobulin Superfamily that has a Cytoplasmic Region Homologous to the Leukocyte Common Antigen," <i>J. Exp. Med.</i> 168(5):1523-1530, November 1988.
	IL	Streuli, M. et al., "Expression of the Receptor-linked Protein Tyrosine Phosphatase LAR: Proteolytic Cleavage and Shedding of CAM-Like Extracellular Region," <i>EMBO J.</i> 11(3):897-907, March 1992.

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	JA						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
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	JB				

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	JC		Sun, H. et al., "MKP-1 (3CH134), An Immediate Early Gene Product, is a Dual Specificity Phosphatase that Dephosphorylates MAP Kinase in Vivo," <i>Cell</i> 75(3):487-93, November 1993.			
	JD		Takahashi, T. et al., "Endothelial Localization of Receptor Tyrosine Phosphatase, ECRTP/DEP-1, in Developing and Mature Renal Vasculature," <i>J Am Soc Nephrol.</i> 10(10):2135-45, October 1999.			
	JE		Tian, S-S. et al., "Three Receptor-Linked Protein-Tyrosine Phosphatases are Selectively Expressed on Central Nervous System Axons in the Drosophila Embryo," <i>Cell</i> 67(4):675-685, November 1991.			
	JF		Tonks, N. et al., "Purification of the Major Protein-tyrosine-phosphatases of Human Placenta," <i>J. Biol. Chem.</i> 263(14):6722-6730, May 1988.			
	JG		Tonks, N., "Protein Phosphatases: Key Players in the Regulation of Cell Function," <i>Curr. Opin. Cell. Biol.</i> 2(6):1114-1124, December 1990.			
	JH		Trapasso, F. et al., "Rat Protein Tyrosine Phosphatase $\eta$ Suppresses the Neoplastic Phenotype of Retrovirally Transformed Thyroid Cells Through the Stabilization of p27 <sup>Kip1</sup> ," <i>Mol Cell Biol.</i> 20(24):9236-46, December 2000.			
	JI		Vadnais, J. et al., "Autocrine Activation of the Hepatocyte Growth Factor Receptor/Met Tyrosine Kinase Induces Tumor Cell Motility by Regulating Pseudopodial Protrusion," <i>J. Biol Chem.</i> 277(50):48342-50, December 2002.			
	JJ		Van Vactor, D. et al., "Genetic Analysis of Protein Tyrosine Phosphatases," <i>Curr. Opin. Genet. Dev.</i> 8(1):112-26, February 1998.			
	JK		Voet et al., <i>Biochemistry</i> , John Wiley & Sons, Inc., pp. 126-128 & 228-234, 1990.			
	JL		Vojtek, A. et al., "Mammalian RAS Interacts directly with the Serine/Threonine Kinase Raf," <i>Cell</i> 74(1):205-214, July 1993.			

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KA						

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	KB			YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KC	Wary, K. et al., "A Homozygous Deletion Within the Carbonic Anhydrase-Like Domain of the <i>Ptprg</i> Gene in Murine L-Cells," <i>Cancer Res.</i> 53(7):1498-1502, April 1993.
KD	Weidner, K. et al., "Interaction Between Gab1 and the c-Met Receptor Tyrosine Kinase is Responsible for Epithelial Morphogenesis," <i>Nature</i> 384(6605):173-6, November 1996.
KE	Weidner, K. et al., "Mutation of Juxtamembrane Tyrosine Residue 1001 Suppresses Loss-of-Function Mutations of the Met Receptor in Epithelial Cells," <i>Proc. Natl. Acad. Sci. USA</i> 92(7):2597-2601, March 1995.
KF	Weidner, K. et al., "The Met Receptor Tyrosine Kinase Transduces Motility, Proliferation, and Morphogenic Signals of Scatter Factor/Hepatocyte Growth Factor in Epithelial Cells," <i>J. Cell Biol.</i> 121(1):145-154, April 1993.
KG	Yang, Q. et al., "Isolation of cDNA Clone Encoding a Human Protein-Tyrosine Phosphatase with Homology to the Cytoskeletal-Associated Proteins Band 4.1, erzin, and talin," <i>Proc. Natl. Acad. Sci. USA</i> 88(14):5949-5953, July 1991.
KH	Yang, X. et al., "A Protein Kinase Substrate Identified by the Two-Hybrid System," <i>Science</i> 257(5070):680-682, July 1992.
KI	Yang, X. et al., "Two Drosophila Receptor-like Tyrosine Phosphatase Genes are Expressed in a Subset of Developing Axons and Pioneer Neurons in the Embryonic CNS," <i>Cell</i> 67(4):661-673, November 1991.
KJ	Young, R. et al., "Efficient Isolation of Genes by Using Antibody Probes," <i>Proc. Natl. Acad. Sci. USA</i> 80(5):1194-1198, March 1983.
KK	Zhang, L. et al., "Thyroid Cell Transformation Inhibits the Expression of a Novel Rat Protein Tyrosine Phosphatase," <i>Exp Cell Res.</i> 235(1):62-70, August 1997.

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	LC						

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					YES	NO
	LD					
	LE					

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LF	Zhu, H. et al., "Receptor Chimeras Indicate that the <i>Met</i> Tyrosine Kinase Mediates the Motility and Morphogenic Responses of Hepatocyte Growth/Scatter Factor," <i>Cell Growth Differ.</i> 5(4):359-66, April 1994.
LG	OMIM database Accession No. 116806, retrieved April 21, 2004.
LH	OMIM database Accession No. 164860, retrieved April 21, 2004.
LI	OMIM database Accession No. 173325, retrieved April 21, 2004.
LJ	OMIM database Accession No. 601045, retrieved April 21, 2004.
LK	OMIM database Accession No. 604439, retrieved April 21, 2004.
LL	Genbank Accession No. 1204266A, May 20, 1996.
LM	Genbank Accession No. AAA59591, January 7, 1995.
LN	Genbank Accession No. AAB36687, November 26, 1996.
LO	Genbank Accession No. AF062317, July 2, 1998.
LP	Genbank Accession No. AF062319, July 2, 1998.
LQ	Genbank Accession No. AF062321, July 2, 1998.
LR	Genbank Accession No. AF062338, July 2, 1998.

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	MB						
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					YES	NO
	MD					
	ME					

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	MF		Genbank Accession No. AF062342, July 2, 1998.
	MG		Genbank Accession No. BC011865, October 4, 2003.
	MH		Genbank Accession No. NM_000245, February 23, 2004.
	MI		Genbank Accession No. NM_001904, December 20, 2003.
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	MN		Genbank Accession No. P08581, June 15, 2004.
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